

- Customer-driven enhancements
- Fewer steps to nesting
- Simplified icons
- Faster graphic resolution

## SigmaNEST<sup>®</sup> Version 9 - Enhancement Details

SigmaNEST Version 9 significantly enhances the user interface and provides key functionality to get to production faster with fewer steps. This release introduces a highly intuitive user interface while reducing screen clutter and number of clicks to an action. Users now have the option of combining menus and tool bars in a single interface. Other enhancements include automatic pop up menus, new search tools, improved file importing, and special enhancements specific to punch and bevel fabricating.

### New User Interface

- Simplified menus and icons
- New nesting graphics options
- Faster graphics resolution
- Automatic pop up menu
- "Quick Find" option
- "Feature Tree"
- Improved side panel function
- Working with objects

### Technical Specifications

SigmaNEST has been upgraded to support the latest technology. It is compatible with Windows Vista<sup>®</sup>, SQL Server 2008, SolidWorks<sup>®</sup> 2009, AutoDesk<sup>®</sup> Inventor 2010 and SolidEdge<sup>®</sup> ST.

### File Importing

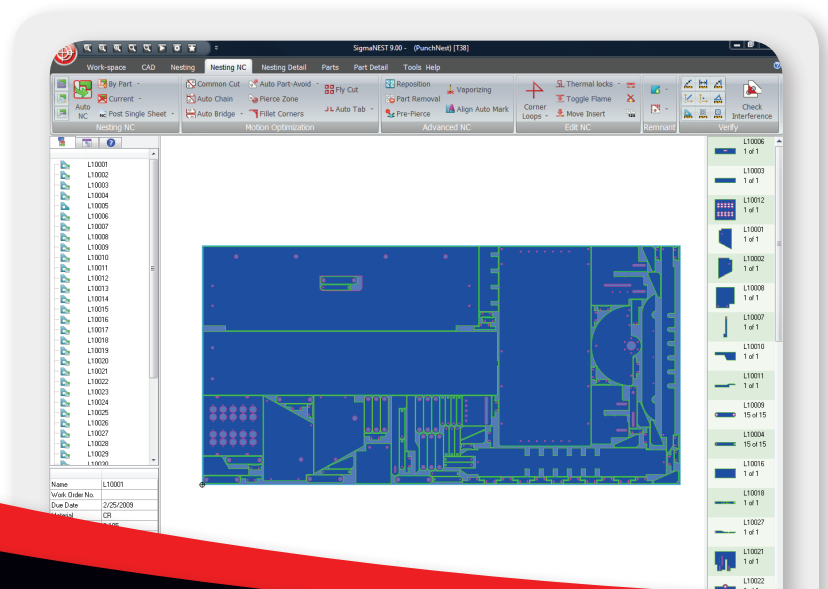
- AutoDesk Inventor 2010 Support
- Color combination functions for layers
- Spline
- Catia V5 3D translator
- Improved solid CAD import speed
- Import SolidWorks<sup>®</sup> sketches, map them to a process
- Import drill features from SolidWorks
- Improved knife bevel recognition

### New CAD Tools

- Position menu side panel
- More colors
- Rectangle Corner Notches
- Rectangle 3 points
- Parallelogram
- Mirror 2 points

### Improved CAD Tools

- Pre-view graphics
- Multi-Line notes editor
- Enhanced array function
- New Standard shapes



## Part Parameters

- New part parameter dialog box layout
- Part revision control
- Save all parts in work space
- Save parts upon exit
- Automatic part update
- Additional process costs

## Task Parameters

- “Quick Task” action
- New task setup dialog

## Manual Nesting

- Part bar improvements
- Exact bump mode
- Last used sheet button on navigation bar
- Double click to move parts
- Auto pop up menu on part move/copy
- Enhanced interference checking
- Mirror layout
- Floating scrap rivets
- Select internal rivets only

## NC and Post Programming

- Auto-NC process sequence
- NC sort position
- Clamp avoidance for scrap cut and crop cut
- Lead-in settings for reposition
- Variable reposition zones
- Multi-torch combinations
- Post to multiple machines in part mode
- Fly cut
- Auxiliary tool applied before default cutting tool
- Auxiliary tool – entire contour
- Auxiliary tool – inside contours
- Multi-depth pass
- Improved pocketing function
- Improved edge pocket function
- Random Z-depth plunge or tool oscillation

## Other Enhancements

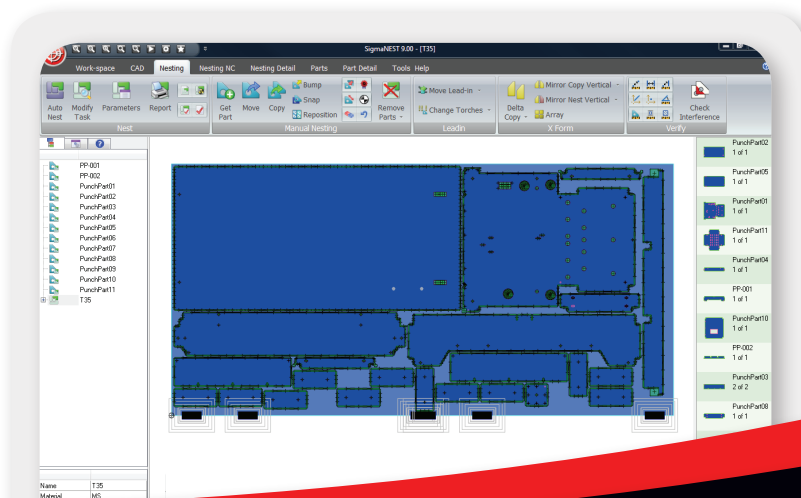
- New report engine
- **Print to scale**
- Pack and Send
- Material groups
- Cut to Length integration

## Bevel-Specific Enhancements

- Sort bevels by angle, nose size
- More triple bevel start windows P-Block Pre-Cut triple bevel start window
- Single line box for triple bevel start
- Bevel window boxes – NC sequence
- Triple bevel – Move lead-out and window
- Triple bevel mirror cut

## Punch-Specific Enhancements

- Auto tabbing with Common Line punching
- Custom drill sequence sorting
- Cyclic pattern tool sort for pattern (machines with part-handlers)
- Custom tool-sort support
- XML-based rule system
- Part-handler support for extensive range of OEM CNC machines including Whitney, Amada, Trumpf, Muratec
- In-the-box tooling with flexible boundary technology
- Complex auto destruct
- Sheet squaring - sequence and direction customizable
- Right-angle shear support for Amada and FinnPower family of machines
- Improved Punch-Drill-Profilng combo machine support
- Reverse NC Support for Punching
- Customizable with CNC specs
- Grid punch with optimization for tool-sorting
- Cluster Tool Grid Punching Support
- Punch Cropping with Tab-Support
- Improved graphics for Punch Tooling
- Custom tolerance by tool
- Wilson Wheel support
- Automatic turret look-up based on material and thickness
- Automatic Form-Nibbling



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